

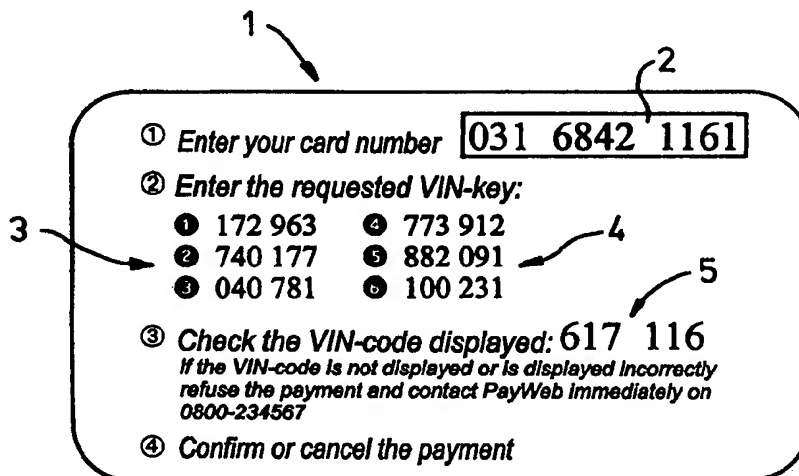


## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<b>(21) International Application Number:</b> PCT/NL99/00060 <b>(22) International Filing Date:</b> 8 February 1999 (08.02.99) <b>(30) Priority Data:</b> 1008372 20 February 1998 (20.02.98) NL <b>(71) Applicant (for all designated States except US):</b> SNOEK HOLDING ZOETERMEER B.V. [NL/NL]; Jan Wapstraat 86, NL-2523 GK Den Haag (NL). <b>(72) Inventor; and</b> <b>(75) Inventor/Applicant (for US only):</b> SNOEK, Fokko, Leonard [NL/NL]; Jan Wapstraat 86, NL-2523 GK Den Haag (NL). <b>(74) Agent:</b> DE BRUIJN, Leendert, C.; Nederlandsch Octrooibureau, Scheveningseweg 82, P.O. Box 29720, NL-2502 LS The Hague (NL).		<b>(81) Designated States:</b> AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>With international search report.</i>

**(54) Title:** METHOD FOR PAYMENT VIA THE INTERNET**(57) Abstract**

Method for processing a transaction relating to a service or product from a supplier by a user with the intervention of a third party, wherein a person making payment is authorised to make a transaction by the third party by means of a check on a card number (2) and an associated security code (4) and wherein the third party is authorised by the user to receive the payment by means of a check on a verification code (5) associated with the card number (2). The data which are exchanged and checked are specified on a card (1) or another medium which the user can obtain from the third party.



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Method for payment via the Internet

The present invention relates to a method for processing a transaction between a first computer application and a second computer application. More specifically, the invention  
5 relates to a method for processing a transaction via a network, such as the Internet. The first computer application is, for example, implemented on a computer of a supplier of services and/or products and the second computer application can be implemented on a computer of a user who can be connected via the network to the supplier's computer, so that the user is able to view and order services and/or products.

10 A second aspect of the invention relates to the provision of a medium that contains the data needed to carry out the method according to the invention.

A secure and reliable method of paying for the services and/or products purchased is crucial in the case of transactions of this type. A known method of payment via, for example, the Internet is to pass on the card number and the expiry date of a credit card,  
15 after which the supplier who supplies the service and/or the product is then paid by the credit card company.

Another known method of payment is to open a customer account for the supply of services or products with a supplier. The customer is then able to order services and/or products from the supplier via, for example, the Internet, provided that he/she has sufficient  
20 credit in his/her account. Usually he/she will then have to enter a user name and a password when ordering.

The known methods of payment have a number of significant disadvantages. Registration of the customer, either directly by the supplier or indirectly via a credit card company, is usually required, which costs time, has the effect of increasing the barrier to  
25 be overcome and gives no guarantee of privacy and/or anonymity. It can also be necessary for the user's computer to be equipped with, for example, a smart card reader with special software, which incurs additional costs and ensures that the user is tied to that specific computer. These disadvantages lead to a customer being less readily inclined to make occasional or impulse payments for services and/or products which, for example, can be  
30 supplied via the Internet.

Further disadvantages are that the known methods of payment are tied to a person and that there is a security risk. For example, the number and the expiry date of the credit card can be intercepted, after which the credit card can be misused to charge up an appreciable

sum.

The object of the present invention is to provide a method for processing a transaction which does not have the said disadvantages of the known methods.

The object is achieved by means of a method of the type defined in the preamble,  
5 characterised in that the method comprises the following steps:

(a) transmission of a first message by the first computer application to a third computer application in order to activate a payment program on the third computer application;

(b) transmission of a second message by the third computer application to the  
10 second computer application in order to activate a payment program on the second computer application;

(c) a request by the second computer application for input of a card number, which is specified on a card, by the user, after which the second computer application then transmits a third message containing the card number to the third computer application;

(d) checking of the card number and determination of the serial number of one of  
15 a plurality of associated security codes by the third computer application, after which the third computer application transmits a fourth message to the second computer application, the fourth message containing the serial number of the security code;

(e) a request by the second computer application to the user to enter that security  
20 code specified on the card which is associated with the serial number transmitted, after which the second computer application transmits a fifth message containing the security code to the third computer application;

(f) checking by the third computer application that the security code associated  
25 with the serial number and card number corresponds to the security code received from the second computer application, after which a sixth message is transmitted by the third computer application to the first and second computer applications, the sixth message containing an acceptance or refusal of the transaction.

The third computer application is, for example, implemented on a computer belonging to a body which issues the cards and conducts the transactions.

30 The codes and numbers associated with a card are known only to the body which implements the third computer application and are specified on a card which is in the possession of the user who uses the second computer application to make payments.

The advantage of the method for processing a transaction between a first computer

application and a second computer application according to the present invention is that there is no requirement for registration of the user with the supplier and the body which issues the cards, which gives a guarantee of privacy and, if desired, anonymity.

Furthermore, as soon as an associated card has been purchased the card can be used  
5 to conduct transactions, as a result of which the method is suitable for occasional and impulse purchases.

No additional equipment and/or software is required, which makes the method according to the invention inexpensive and simple. Furthermore, the user is not tied to a special computer provided with additional peripherals and/or software.

10 The outstanding balance on the card is linked to the card number and not to a person. Therefore, it is also possible to transfer the card to someone else or to let someone else use the card.

The method is suitable for transactions where payment is made in currency, but also for transactions where other units are used (for example x accesses to a database, y games,  
15 z weather reports).

Furthermore, the method according to the invention is suitable for both credit and debit transactions.

Because multiple security codes are used, it is unpredictable which security code will be used. Tapping data traffic is thus virtually pointless because a different security code  
20 can be used for a subsequent transaction with the same card.

The level of security can be tailored to the desired requirements. For example, the security codes can be made longer or, on the contrary, shorter and the number of security codes specified on the card can be increased or reduced.

With the method according to the invention, the risk of messages being tapped,  
25 misuse or loss is always restricted to the value of the outstanding balance on the card and not, as in the case of a credit card, to the credit limit of the card.

If the outstanding balance on a card is not sufficient to complete a transaction, steps (c) to (f) of the method can be repeated with another card.

In one embodiment of the method according to the invention, the computer  
30 applications are implemented on at least two computers which are linked to one another via a network, for example, the Internet.

As a result a user is able to view, order and pay for products and/or services from a supplier remotely. The first and third computer applications are then, for example, both

implemented on a computer located on the supplier's premises, which, for example, can be linked via the Internet to a user's computer on which the second computer application is implemented. In this case the supplier can also be the body which issues the cards and processes the transactions.

5        Although with known methods a check is made to determine whether the user is authorised to make payments (adequate balance, correct credit card number), these methods do not offer the possibility for the user to check whether the party receiving the payment is authorised.

10        In one embodiment of the invention the third computer application also includes at least one verification code associated with the card number in the fourth message in step (d) and in step (e) the second computer application also asks for confirmation that the at least one verification code transmitted corresponds to the at least one verification code specified on the card and the latter application includes the result of this in the fifth message.

15        This embodiment has the advantage that bilateral authorisation takes place. There is not only a check to determine whether the user is authorised to make payments, there is also a check to determine whether the body which is processing the transactions (with the aid of the third computer application) is authorised.

20        In a further embodiment, the fourth message contains the amount to be paid and/or the balance on the card and the second computer application displays the amount to be paid and/or the balance on the card to the user after receipt of the fourth message. This provides the user with additional ease of use and a further possibility for checking the transaction.

25        In a further embodiment each message is provided with a transaction identifier. This makes it possible for the third computer application to process multiple transactions simultaneously.

30        In a further embodiment of the method according to the invention, the contents or part of the contents of one or more of the messages are/is encrypted, so that the contents of the messages cannot be decoded by others. This makes it possible to provide security for the exchange of messages if necessary. The level of security which is considered necessary can be adapted by selecting a specific type of encryption.

A second aspect of the invention relates to a medium which is suitable for performing the method according to the invention, characterised in that the medium contains at least

one card number and at least one security code with associated serial number.

A further embodiment of the medium also contains at least one verification code.

Because all data required to perform the method according to the present invention are contained on the medium according to a second aspect of the invention, it is possible  
5 to process transactions without special facilities in the form of equipment, software, registration, etc. being required for this.

In one embodiment the medium according to the present invention is constructed in the form of a printed card, the data being printed on the card. It is also possible to specify the data on a card in such a way that said data can be read with the aid of generally  
10 available equipment. In this context consideration can be given to a magnetic card, a smart card or a card provided with barcodes.

In a further embodiment of the present invention, the medium is constructed as a computer-readable medium, such as, for example, a diskette or a CD-ROM.

The present invention will now be explained with reference to a preferred  
15 embodiment and the appended drawings, in which:

Fig. 1 shows a preferred embodiment of a card containing the data which a user requires in order to be able to perform the method according to the invention;

Fig. 2 shows a diagram of the systems involved in a transaction according to the present invention.

20 Fig. 1 shows a preferred embodiment of a card 1 containing the data which a user requires in order to be able to perform the method according to the invention. The card 1 specifies a card number 2 (which can be a numeral or an alphanumeric sequence) and several, in this case six, arbitrarily chosen security codes 4, which are indicated by a serial number 3. In addition the card 1 specifies a verification code 5. The numbers associated  
25 with a card (card number 2, security codes 4 with associated serial number 3 and the verification code 5) are otherwise known only to the body which issues the cards 1 and performs the transactions.

In its simplest embodiment, the card 1 is a small-format card with the data required for performing the method according to the invention printed thereon. It is also possible  
30 to specify the data on a card in such a way that said data can be read with the aid of generally obtainable equipment. In this context consideration can be given to a magnetic card, a smart card or a card provided with barcodes. In a further embodiment of the present invention, the data which are needed to perform the method according to the

invention are stored on a computer-readable medium, such as, for example, a diskette or a CD-ROM.

Fig. 2 shows a diagram of the systems involved in a payment in accordance with the method of the present invention. A supplier's computer 11, which runs the first computer application, a user's computer 12, which runs the second computer application, and a transaction computer 13, which runs the third computer application, are shown. The computers 11, 12, 13 are linked to one another via a network 10, for example the Internet. The computers are generally known computers which are provided with input means such as a mouse and keyboard and a monitor for displaying information.

It will be obvious to a person skilled in the art that the communication between the transaction computer 13 and the user's computer 12 can also proceed via the supplier's computer 11. It will also be obvious that the supplier himself can be the body which issues the cards 1 and performs the transactions. The first and third computer applications can then be implemented on one computer.

Via the network 10, the user is connected, with the aid of the user's computer 12, to a supplier's computer 11 and is able, for example with the aid of a further computer application, to use the supplier's computer 11 to view what services and/or products are offered by the supplier. As soon as the time at which payment has to be made (in money or other units) has been reached, a payment module on the transaction computer 13 is activated from the further computer application on the supplier's computer 11 by transmitting a first message. By means of this transmission the sum or the number of units to be paid is/are passed on by the first computer application on the supplier's computer 11. By means of a second message, the payment module on the transaction computer 13 activates a payment module on the user's computer 12 which asks the user to enter the card number 2. This information is transmitted in a third message to the payment module on the transaction computer 13, which checks whether the card number has an active status. The payment module on the transaction computer 13 then compiles a fourth message for the payment module on the user's computer 12, which message incorporates at least the serial number 3, selected by the payment module on the transaction computer 13, of the security code 4 to be checked and an alphanumeric value of arbitrary composition. On receipt of the fourth message, the payment module on the user's computer 12 will ask the user to enter the security code 4 which has the serial number 3 indicated in the message from the transaction computer 13. The alphanumeric value of arbitrary composition



received in the fourth message from the transaction computer 13 is, if necessary, encrypted by the payment module on the user's computer 12 with the aid of the security code 4 entered. Said encrypted value is sent back by the user's computer 12 in a fifth message to the transaction computer 13, where it is compared with an encrypted value that has been  
5 calculated by the payment module on the transaction computer 13. If the received and calculated encrypted values are identical, this confirms that the user has entered the correct security code 4. The payment module on the transaction computer 13 will send a sixth message to the payment module on the user's computer 12 to confirm that payment has been made. Furthermore, the payment module on the transaction computer 13 sends the  
10 sixth message to the application on the supplier's computer 11 in which payment is confirmed.

If the outstanding balance on a card 1 is insufficient to process a transaction, steps (c) to (f) of the method can be repeated with another card 1.

In a preferred embodiment the fourth message also contains a verification code 5  
15 associated with the card number. The user's computer 12 displays this verification code 5 to the user and asks the user to confirm that this code corresponds to the verification code 5 specified on the payment card 1. The confirmation or denial of correspondence is then included by the user's computer 12 in the fifth message and transmitted to the transaction computer 13. This provides the user with an opportunity to check whether the  
20 transaction computer 13 is authorised to perform transactions. In one embodiment the sum or the number of units to be paid and the current balance on the card are also included in said message. This is then displayed by the user's computer 12 for checking by the user.

In a further embodiment, all messages which are exchanged in the context of the method are provided with a transaction number. This simplifies the identification of a  
25 specific payment and makes it possible for the transaction computer 13 to handle multiple transactions simultaneously.

In one embodiment the contents or part of the contents of the messages which are exchanged in the method according to the invention can be encrypted by means of a suitable encryption mechanism. The level of security can be chosen by selecting a specific  
30 type of encryption mechanism.

Claims

1. Method for processing a transaction between a first computer application and a second computer application, characterised in that the method comprises the following steps:

(a) transmission of a first message by the first computer application (11) to a third computer application (13) in order to activate a payment program on the third computer application (13);

(b) transmission of a second message by the third computer application (13) to the second computer application (12) in order to activate a payment program on the second computer application (12);

(c) a request by the second computer application (12) for input of a card number (2), which is specified on a card (1), by the user, after which the second computer application (12) then transmits a third message containing the card number (2) to the third computer application (13);

(d) checking of the card number (2) and determination of the serial number (3) of one of a plurality of associated security codes (4) by the third computer application (13), after which the third computer application (13) transmits a fourth message to the second computer application (12), the fourth message containing the serial number (3) of the security code (4);

(e) a request by the second computer application (12) to the user to enter that security code (4) specified on the card (1) which is associated with the serial number (3) transmitted, after which the second computer application (12) transmits a fifth message containing the security code (4) to the third computer application (13);

(f) checking by the third computer application (13) that the security code (4) associated with the serial number (3) and card number (2) corresponds to the security code (4) received from the second computer application (12), after which a sixth message is transmitted by the third computer application (13) to the first (11) and second (12) computer applications, the sixth message containing an acceptance or refusal of the transaction.

2. Method according to Claim 1, characterised in that the computer applications are implemented on at least two computers (11; 12; 13) which are linked to one another via a network (10).

3. Method according to Claim 2, characterised in that the messages are transmitted via the Internet.

4. Method according to Claim 1, 2 or 3, characterised in that the third computer application (13) also includes at least one verification code (5) associated with the card number (2) in the fourth message in step (d) and in step (e) the second computer application (12) also asks for confirmation that the at least one verification code (5) transmitted corresponds to the at least one verification code (5) specified on the card (1) and includes the result of this in the fifth message.

5. Method according to one of the preceding claims, characterised in that the fourth message contains the amount to be paid and in that the second computer application (12) displays the amount to be paid to the user after receipt of the fourth message.

6. Method according to one of the preceding claims, characterised in that the fourth message contains the balance on the card and in that the second computer application (12) displays the balance on the card to the user after receipt of the fourth message.

7. Method according to one of the preceding claims, characterised in that each message is provided with a transaction identifier.

8. Method according to one of the preceding claims, characterised in that the contents or part of the contents of one or more of the messages are/is encrypted.

9. Medium for application of the method according to one of Claims 1 to 8, characterised in that the medium contains a card number (2) and at least one security code (4) with associated serial number (3).

10. Medium according to Claim 9, characterised in that the medium also contains at least one verification code (5).

11. Medium according to Claim 9 or 10, characterised in that the medium is a printed card (1).

12. Medium according to Claim 9 or 10, characterised in that the medium is a computer-readable medium.

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1/1

fig - 1

1

2

3

4

5

① Enter your card number

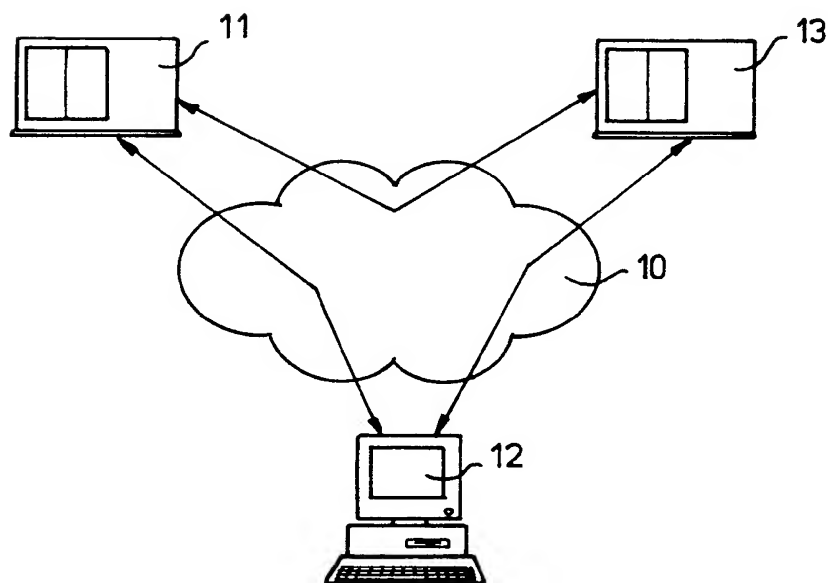
② Enter the requested VIN-key:

① 172 963	④ 773 912
② 740 177	⑤ 882 091
③ 040 781	⑥ 100 231

③ Check the VIN-code displayed: 617 116  
*if the VIN-code is not displayed or is displayed incorrectly  
refuse the payment and contact PayWeb immediately on  
0800-234567*

④ Confirm or cancel the payment

fig - 2



# INTERNATIONAL SEARCH REPORT

International Application No

PCT/NL 99/00060

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 6 G07F7/10

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 G07F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 692 132 A (HOGAN EDWARD J) 25 November 1997 see claim 1; figure 1 ---	1-12
A	EP 0 814 441 A (FRANCE TELECOM) 29 December 1997 see claim 1; figure 1 ---	1-12
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A	US 5 590 197 A (CHEN JAMES F ET AL) 31 December 1996 see claim 1; figure 1 ---	1-12
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

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# INTERNATIONAL SEARCH REPORT

Interr. Appl. Application No  
PCT/NL 99/00060

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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Information on patent family members

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